



543223-LLP-1-2013-1-LV-KA4- KA4MP

## **GOERUDIO: Motivation and Innovation for Learning in Sciences**

**Florence, Italy**

**05 October 2015**

### **Minutes**

#### **Participants**

The seminar has been attended by the following participants:

- 1 school director;
- 85 students from ITIS "A. Meucci" (Florence, Italy) and IP "F. Datini" (Prato, Italy);
- 7 teachers from 4 schools;
- 3 Pixel representatives.

#### **Minutes**

The seminar has been held in ITIS "A. Meucci" one of the schools involved within Goerudio project activities. Its main aim was to promote the results of the project toward a broad sample of stakeholders even overcrossing the number of people directly involved in the production of project outcomes. This purpose has been totally achieved especially thanks to the participation of students and teachers coming from different schools or from other classes instead of those ones directly involved within the project activities.

The agenda of the seminar foresaw three short introductory speeches, but the core points of the event was the testimonials made by teachers and students with regard to their experience within the project activities. Free time was left for spontaneous interventions by the attendees.

The seminar was opened by Emilio Sisi's speech (hosting school director). He welcomed the participants and praised Goerudio project for the good results achieved. His speech focused on the contribution given by Goerudio project to the efforts that the school is carrying out for the innovation of teaching methodologies especially in the field of scientific subjects. Indeed, ITIS "A. Meucci" school is very active since long time in proposing a holistic didactical approach bringing together not only humanistic and scientific subjects, but also different disciplines within the scientific field. Unfortunately, the efforts made in this direction do not always bring the expected results and the participation to projects like the Goerudio one is meaningful with regard to its contribution to enforce the overall strategy of the school toward this issue.

Elisabetta Delle Donne from Pixel highlighted the importance of European projects for schools especially in Italy because of the lack of national funding opportunities. As one of the main opportunities for schools, she presented the features of the Erasmus+ programme with regard to its main aims to:

- Reduce early school leaving
- Increase attainment in tertiary education
- Improve employability and support entrepreneurship
- Improve quality, innovation, internationalization of education
- Enhance cross-sector strategic partnership
- Promote social cohesion and active citizenship



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Giovanni Caruso from Pixel made a summary of the project presenting the activities carried out during last two years and the main results achieved during this time. His speech aimed to present an overview of the project activities to the seminar participants in order to make them accustomed with what they would have been going to hear during the following speeches.

Giovanni Caruso's one was the last participation of the introductory part of the seminar. Therefore, the stage was passed to teachers and students for sharing their experiences.

Sandro Gomboli from ITIS "A. Meucci" made a summary of his whole experience within the project. He mentioned the gathering of teachers' and students' experiences, the review of the initiatives and the production of educational resources. He focused his attention on the presentation of the teaching experience physics laboratory "Checking the Second Law of Gay-Lussac Ball with Sphere of Gas of Von Jolly". This educational product, available on the project portal, is a lesson plan addressed to upper secondary school students between 14 and 15 years old. The aim of this lesson plan is detail the features of a training path including learning expected outcomes, products, targeted skills, required abilities and knowledge, methodology and much more. In this specific lesson plan the scientific concepts of the Second Law of Gay-Lussac is investigated. Once the lesson plan has been developed, the implementing phase can foresee the involving of other disciplines. Putting into practice the planned activities and through the evaluation methodology foreseen, students have the opportunity to be challenged by innovative teaching solutions, multilevel analysis and cross-sector exercises. Sandro Gomboli showed also some pictures taken during the implementation of this teaching experience.

Afterwards, it was the turn of four students from ITIS "A. Meucci". They presented the implementation of activities inspired by Goerudio project from their point of view. This section was the most meaningful one of the seminar because the students indirectly gave their feedback and evaluation on the project activities and their comments were totally positive. Their motivation and their willing towards learning scientific subjects were positively affected by these experiences. Therefore we can say that the projected achieved the expected results.

According to the agenda, Massimo Amato from "ISIS Machiavelli - Capponi" took the word by drafting his experience within the project. He teaches Maths and Physics and his speech was even more meaningful because he gave an external testimonial in comparison with the fact that the majority of the participants to the seminar attended the hosting school. He focused his presentation on the Goerudio models produced by his students. The participants to the seminar had the opportunity to know the works done from other colleagues and some of them were really interested in the results shown.

During the answers and questions time, Laura Capella from "IIS Elsa Morante - Ginori Conti" asked for a speech. She teaches Chemistry and she is also involved in the Goerudio project. Her experience within the project activities was appreciated as well.

At the end, Giovanni Caruso from Pixel made the final speech thanking all the speakers for the active contributions and all the participants for the kind attention. Drawing the conclusion of the event, he highlighted the main subjects dealt with during the seminar. Once again besides the workshops, an event organised in the framework of Goerudio project allowed to share comments and opinions about a broader set of subjects with respect to those ones directly touched by the project activities. Even the group of people reached by this event has been more numerous than those ones involved within the project activities. This seminar has been also useful to get people acquainted with the resources available on Goerudio portal and with the teaching methodologies inspired by the project activities. This is the reason why we can think that thanks to this seminar the number of the people that take advantages through the project activities and result will increase in the near future.



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